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- PN - JP11175973 A 19990702
 TI - MASTER INFORMATION MAGNETIC RECORDER
 AB - PROBLEM TO BE SOLVED: To provide a master information magnetic recorder performing reliable pre-format recording by making a geometric center of a rugged shape **pattern** formed on a master information carrier precisely coincide with a rotational center of a magnetic recording medium.
 SOLUTION: A non-magnetic area 412 formed with no ferromagnetic layer is provided on a hard disk 41. A **mark** 411 is provided on the master information carrier 42 matched with the position of the non-magnetic area 412 of the hard disk 41. The position of the master information carrier 42 is adjusted while observing an image obtained from a position detecting image pick-up device 410, and one side of the non-magnetic area 412 on the hard disk 41 is made to coincide with one side of the **mark** 411 on the master information carrier 42, and both are stuck. Thereafter, a DC exciting magnetic field is applied to the master information carrier 42 by a permanent magnet 46, and a pre-format information signal answering to a rugged shape is recorded on the hard disk 41.
 FI - G11B5/86&101B
 PA - MATSUSHITA ELECTRIC IND CO LTD
 IN - MIYATA KEIZO; HAMADA TAZO; TOMA KIYOKAZU; RIYOUNAI HIROSHI; ISHIDA TATSURO
 AP - JP19970337363 19971208
 PR - JP19970337363 19971208
 DT - I

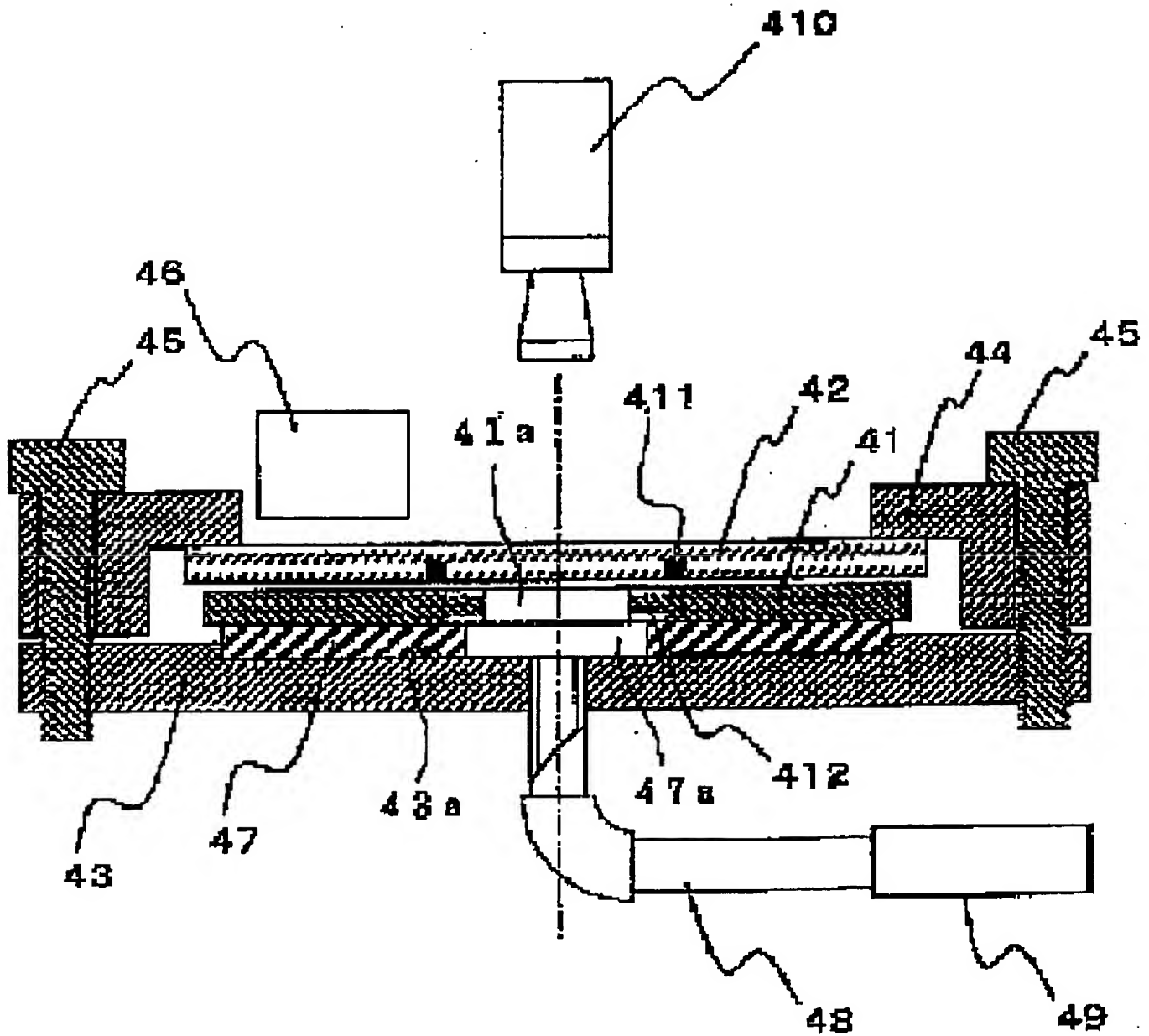
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- AN - 1999-435030 [37]
 TI - Master information magnetic recording device - **shape** master information carrier and magnetic recording medium by matching position of non-magnetic area of recording medium to **mark** provided in master information carrier
 AB - JP11175973 NOVELTY - The information signal corresponding to the uneven shape of the master information carrier is recorded to the magnetic recording medium. The master information carrier and magnetic recording medium are **aligned** by matching the position of the non-magnetic area of the recording medium to the **mark** provided in the master information carrier. DETAILED DESCRIPTION - A ferromagnetic thin film is formed on the projection surface of an uneven-shaped master information carrier (42) formed on a base. A magnetic recording medium e.g. hard disc (41) is stuck to the film. Magnetization of the film is formed using an external magnetic field.
 - USE - For recording predetermined information signal beforehand to magnetic recording medium used in magnetic recording-and-reproducing apparatus of high capacity and high recording density e.g. hard disc drive.
 - ADVANTAGE - Pre-format recording without eccentricity can be performed since geometric center of uneven-shaped **pattern** formed on master information carrier can be made in accord with center of magnetic recording medium. DESCRIPTION OF DRAWING(S) - The figure shows a cross-sectional view of the master information recording device. (41) Hard disc; (42) Master information carrier.
 - (Dwg.4/17)
 IW - MASTER INFORMATION MAGNETIC RECORD DEVICE **ALIGN** MASTER INFORMATION CARRY MAGNETIC RECORD MEDIUM MATCH POSITION NON MAGNETIC AREA RECORD MEDIUM **MARK** MASTER INFORMATION CARRY
 PN - JP11175973 A 19990702 DW199937 G11B5/86 013pp
 IC - G11B5/86
 MC - T03-A07B
 DC - T03
 PA - (MATU) MATSUSHITA DENKI SANGYO KK
 AP - JP19970337363 19971208
 PR - JP19970337363 19971208

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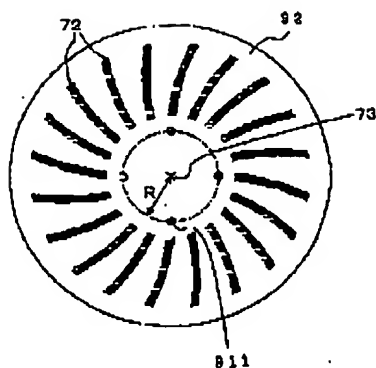
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I - G11B5/86
PA - MATSUSHITA ELECTRIC IND CO LTD
IN - MIYATA KEIZO; HAMADA TAIZO; TOMA KIYOKAZU; RIYOUNAI HIROSHI; ISHIDA TATSURO
ABD - 19991029
ABV - 199912
AP - JP19970337363 19971208



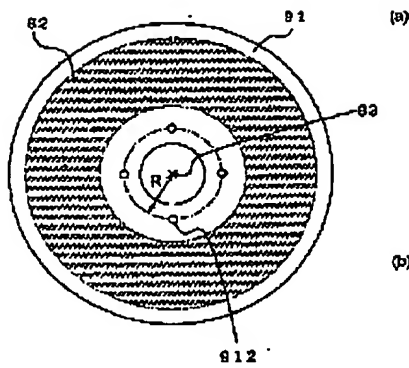
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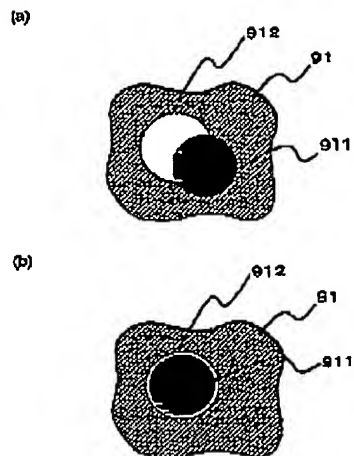
【図7】



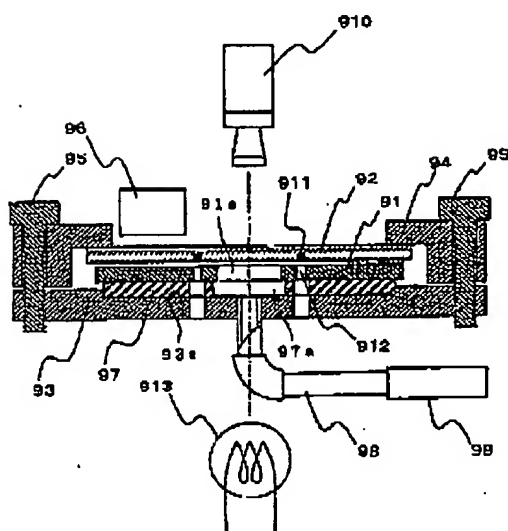
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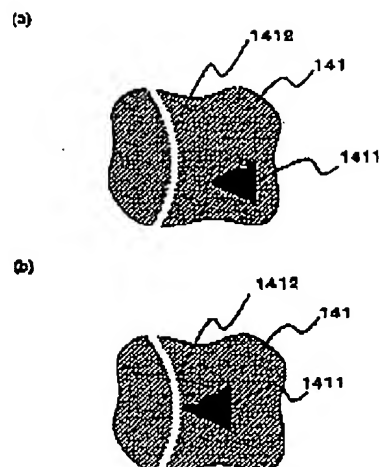
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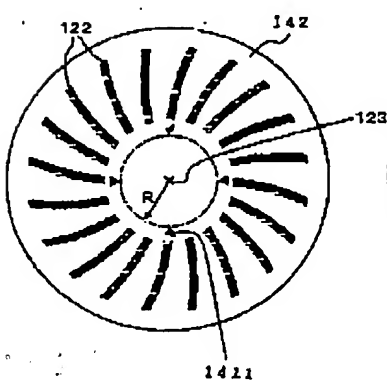
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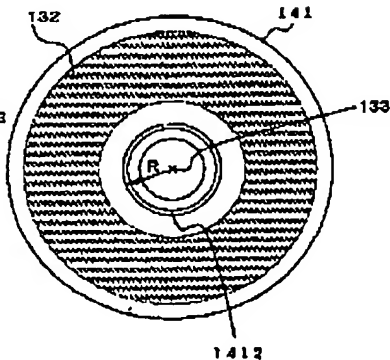
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【図12】



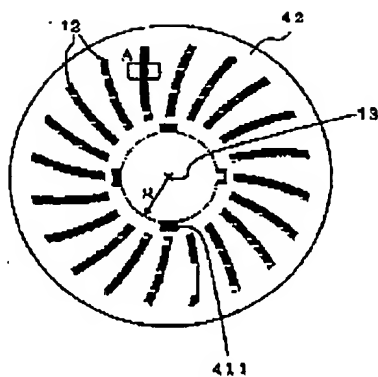
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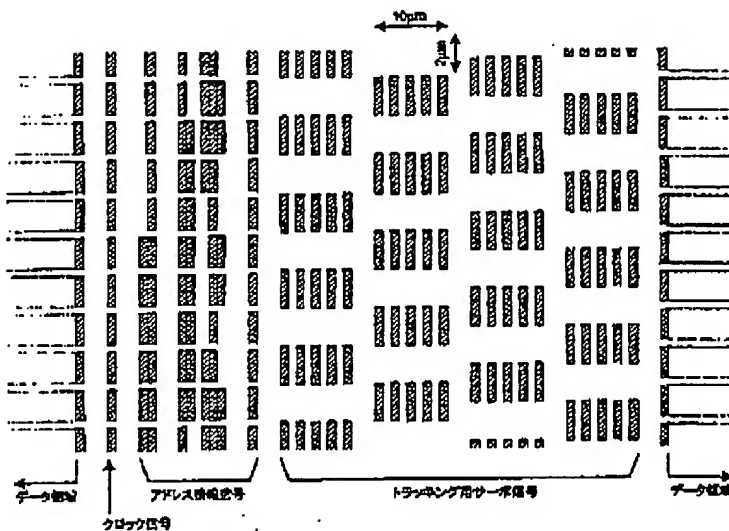
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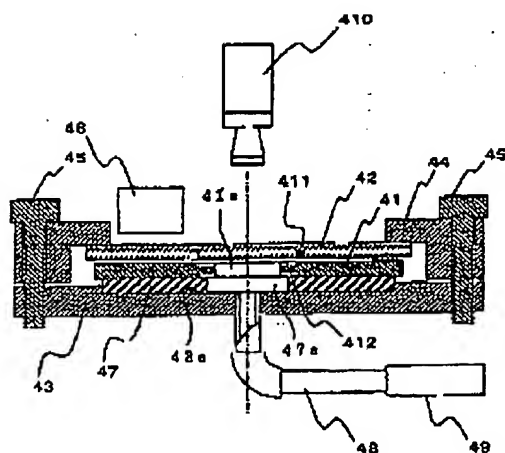
【図1】



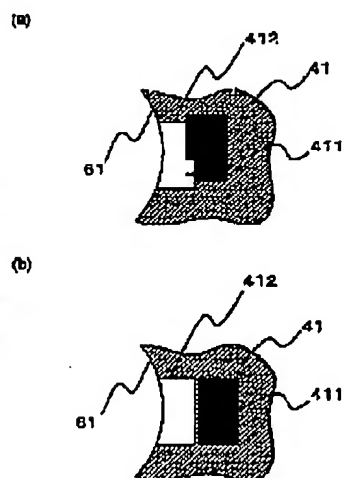
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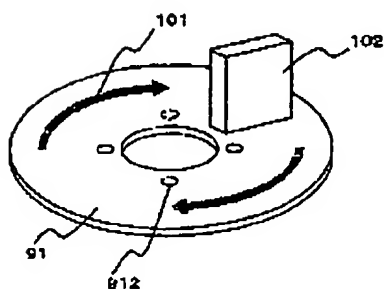
【図4】



【図6】



【図10】



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